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RESEARCH NOTE LS-25

LAKE STATES FOREST EXPERIMENT STATION . U. S. DEPARTMENT OF AGRICULTURE

## Forest Area Trends in Minnesota Counties

The total area of forest land in Minnesota, now 19 million acres, has decreased less than 3 percent in the last 30 years. This relatively small loss is due primarily to increased urbanization and new rights-of-way that have been cleared for highways and utility lines. Land-clearing activities have more than offset any additions to forest land from natural restocking and tree planting. Most tree planting is done on land already classified as forest — this does not change the total forest area.

Although the patterns are indistinct, significant changes in forest area have occurred in several counties and certain sections of the State. Counties with the greatest reductions in forest area are Beltrami, Pine, Aitkin, and Roseau. Those with the largest increases include Becker, Otter Tail, and Anoka. Forest area increased in 40 counties between 1953 and 1962, but decreased in another 47 (table 1). Only 7 of the counties in the northern half of the State had increases, and all of the counties in the Red River Valley have less forest area now than a decade ago.

Commercial forest land, at first glance, shows a decrease in area of about 6 percent in the last 10 years. However, this decrease very probably reflects improved survey procedures rather than an actual change in commercial forest acreage. When forest area distributions by ownerships and forest types are available a more accurate analysis of the change can be made. The commercial forest area is now estimated as 17.1 million acres, compared with 18.1 million recorded in the last survey. Newer aerial photos, more widely

dispersed sampling, and more objective methods of site determination account for a part of this decrease, particularly in Beltrami County. A small part of this change resulted from expansion of parks and other reserved recreational areas. The reported decrease in commercial forest land should not result in decreased timber volume because most of the excluded area is marginal for growing tree crops.

Commercial forest land, as a percent of all land, declines across Minnesota from northeast (about 80 percent) to southwest (less than 1 percent). Minnesota's Arrowhead country is in large measure her woodshed, containing all of the most heavily forested counties (fig. 1 on last page).

The sampling error for forest areas from this survey is less than 1.5 percent (at one standard deviation) per million acres, and is somewhat smaller in the northern counties which were sampled more intensively.

The forest area information reported in this Note is part of the results of the Third Minnesota Forest Survey made during 1960-63 by the Office of Iron Range Resources and Rehabilitation and the Lake States Forest Experiment Station in cooperation with other public and private agencies. Other publications giving details of Minnesota forest areas, timber volumes, growth, and cut are being prepared and will be published during the next 12 months.

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July 1963 /

Table 1. — Minnesota forest areas by county in 1962, and changes since 1953

County	forest land since 1953  Thousand	: Change in : commercial : forest land : since 1953 Thousand acres
Thousand acres	Thousand	Thousand
Thousand acres	Thousand	Thousand
Aitkin 1,167.4 900.4 850.6 - 49.8 72.9 Anoka 272.0 74.4 62.1 - 12.3 22.8 Becker 841.6 390.1 385.9 3.5 .7 45.8 Beltrami 1,610.9 1,178.2 993.0 .3 184.9 61.6 Big Stone 326.4 4.0 3.82 1.2 1.2 Billue Earth 473.6 33.3 31.4 1.1 8.6 6.6 Brown 392.3 15.8 14.7 2.9 9 3.7 Anoka 272.9 2.9 1.2 Billue Earth 473.6 33.3 31.4 1.1 8.6 6.6 Brown 392.3 15.8 14.7 2.9 9 3.7 Anoka 272.9 1.2 Billue Earth 473.6 33.3 31.4 1.1 8.6 6.6 Brown 392.3 15.8 14.7 2.9 9 3.7 Anoka 272.9 1.2 Billue Earth 473.6 1.3 8.4 14.7 2.2 9 3.7 Anoka 272.9 1.2 Billue Earth 473.6 1.3 8.4 14.7 2.2 9 3.7 Anoka 272.5 8.5 14.7 2.2 9 3.7 Anoka 272.5 8.5 7.8 3.3 4.4 2.1 10.4 Chisago 268.2 66.1 52.9 1.1 31.1 19.7 Clay 672.0 24.9 20.0 1.1 4.8 3.0 Clearwater 643.2 394.5 387.7 19.4 7.4 57.2 Cook 887.9 868.9 710.0 157.0 1.9 79.1 Cottowood 400.6 7.1 6.74 1.6 Cottowood		
Aitkin 1,167.4 900.4 850.6 - 49.8 72.9 Anoka 272.0 74.4 62.1 - 12.3 22.8 Becker 841.6 390.1 385.9 3.5 .7 45.8 Becker 841.6 390.1 1,178.2 993.0 .3 184.9 61.6 Benton 258.6 35.0 27.3 - 7.7 10.6 Benton 258.6 35.0 27.3 - 7.7 10.6 Benton 258.6 35.0 27.3 - 7.7 10.6 Benton 326.4 4.0 3.82 1.2 Blue Earth 473.6 33.3 31.4 1. 1. 8 6.6 Senton 326.4 4.0 3.82 1.2 Senton 32.3 15.8 14.7 .2 .9 3.7 Carlton 550.4 383.4 367.0 8.4 8.0 66.7 Carver 229.1 28.4 23.9 - 4.5 10.4 Cass 1,313.9 1,023.8 1,006.4 - 17.4 76.6 Senton 372.5 8.5 7.8 .3 .4 2.1 Chisago 268.2 666.1 52.9 .1 13.1 19.7 Clay 672.0 24.9 20.0 1 4.8 3.0 Clearwater 643.2 394.5 367.7 19.4 7.4 57.2 Cook 897.9 868.9 710.0 157.0 1.9 79.1 Cottonwood 409.6 7.1 6.74 1.6 Crow Wing 639.4 449.5 447.5 - 2.0 70.0 Dakota 365.4 42.1 33.6 - 85.5 9.2 Dodge 278.4 9.0 8.55 3.0 Dodge 278.4 9.0 8.55 3.0 Dodge 278.4 99.0 8.55 3.0 Sould a 465.1 71.1 63.0 6 7.5 13.0 Goodhue 485.1 71.1 63.0 6 7.5 13.0 7.3 1.4 Hennepin 361.6 36.8 30.6 2 6 0.8 5.5 1.13 1.4 Hennepin 361.6 36.8 30.6 2 6 0.9 51.2 - 9.7 18.1 Tasaca 1,704.3 1,480.9 1,411.9 1.4 67.6 82.8 Jackson 446.7 6.8 6.2 2 2 .4 4 1.4 Kondiyohi 527.4 23.2 21.2 7.7 1.3 4.0 Knadiyohi 527.4 23.2 21.2 7.7 1.3 4.0 Knadiyohi 527.4 23.2 21.2 7.7 1.3 4.0 Knadiyohi 527.4 23.	20225	acres
Anoka         272.0         74.4         62.1         - 12.3         22.8           Becker         841.6         390.1         385.9         3.5         1.7         45.8           Benton         258.6         35.0         27.3         - 7.7         10.6           Benton         258.6         35.0         27.3         - 7.7         10.6           Biue Earth         473.6         33.3         31.4         1.         1.8         6.6           Brown         392.3         15.8         14.7         2.         9.         3.7           Carlton         550.4         383.4         367.0         8.4         8.0         66.7           Carver         229.1         28.4         23.9         - 4.5         10.4           Cass         1,313.9         1,023.8         1,006.4         - 17.4         76.6           Chippewa         372.5         8.5         7.8         .3         .4         2.1           Clay         672.0         24.9         20.0         .1         4.8         3.0           Clay         672.0         24.9         20.0         .1         4.8         3.0           Clearwater         643	acres	
Anoka 272.0 74.4 62.1 - 12.3 22.8 Becker 841.6 390.1 385.9 3.5 .7 45.8 Becker 841.6 390.1 385.9 3.5 .7 45.8 Beltrami 1,610.9 1,178.2 993.0 .3 184.9 61.6 Benton 258.6 35.0 27.3 - 7.7 10.6 Benton 258.6 35.0 27.3 - 7.7 10.6 Benton 326.4 4.0 3.82 1.2 Blue Earth 473.6 33.3 31.4 1. 1. 1.8 6.6 Brown 392.3 15.8 14.7 .2 .9 3.7 Carlton 550.4 383.4 367.0 8.4 8.0 66.7 Carver 229.1 28.4 23.9 - 4.5 10.4 Cass 1,313.9 1,023.8 1,006.4 - 17.4 76.6 Chippewa 372.5 8.5 7.8 .3 .4 2.1 Chisago 268.2 66.1 52.9 .1 13.1 19.7 Clay 672.0 24.9 20.0 .1 4.8 3.0 Clearwater 643.2 394.5 367.7 19.4 7.4 57.2 Cook 897.9 868.9 710.0 157.0 1.9 79.1 Cottowood 409.6 7.1 6.74 1.6 Cottowood 409.6 7.1 6.74 1.6 Cottowood 409.6 7.1 6.74 1.6 Cottowood 365.4 42.1 33.6 - 8.5 9.2 Douglas 407.7 48.2 42.3 .3 5.6 10.3 Earthur 465.3 13.6 12.88 5.9 .2 Douglas 407.7 48.2 42.3 .3 5.6 10.3 Earthur 465.3 13.6 12.88 5.9 .2 Douglas 407.7 48.2 42.3 .3 5.6 10.3 Earthur 49.3 16.4 15.4 .1 .9 3.4 Cooking 49.3 16.4 15.4 .1 .9 3.4 Earthur 569.8 90.1 83.7 - 64.4 15.2 Freeborn 449.3 16.4 15.4 .1 .9 3.4 Earthur 569.5 5.4 5.13 1.4 Earthur 569.5 5.4 45.13 1.4 Earthur 569.5 5.4 5.13 1.4 Earthur 569	-41.7	42.2
Becker         841.6         390.1         385.9         3.5         7.7         45.8           Beltrami         1,610.9         1,178.2         993.0         .3         184.9         61.6           Big Stone         326.4         4.0         3.8         -         .2         1.2           Blue Earth         473.6         33.3         31.4         .1         1.8         6.6           Brown         392.3         15.8         14.7         .2         .9         3.7           Carver         229.1         28.4         23.9         -         4.5         10.4           Carver         229.1         28.4         23.9         -         4.5         10.4           Chisago         268.2         66.1         52.9         .1         13.1         19.7           Clay         672.0         24.9         20.0         .1	+28.2	-43.3 +15.9
Beltrami 1,610.9 1,178.2 993.0 .3 184.9 61.6 Benton 258.6 35.0 27.3 - 7.7 10.6 Benton 258.6 35.0 27.3 - 7.7 10.6 Big Stone 326.4 4.0 3.82 1.2 1.2 Blue Earth 473.6 33.3 31.4 1.1 1.8 6.6 Brown 392.3 15.8 14.7 .2 .9 3.7 Carlton 550.4 383.4 367.0 8.4 8.0 66.7 Carver 229.1 284 23.9 - 4.5 10.4 Cass 1,313.9 1,023.8 1,006.4 - 17.4 76.6 Chippewa 372.5 8.5 7.8 3 .4 2.1 Chisago 268.2 66.1 52.9 1.1 13.1 19.7 Clay 672.0 24.9 20.0 1.1 4.8 3.0 Clearwater 643.2 394.5 367.7 19.4 7.4 57.2 Cook 897.9 868.9 710.0 157.0 1.9 79.1 Cottonwood 409.6 7.1 6.7 - 4 1.6 Crow Wing 639.4 449.5 447.5 - 2.0 70.0 Dakota 365.4 42.1 33.6 - 8.5 9.2 Dodge 278.4 9.0 8.55 3.0 Douglas 407.7 48.2 42.3 3.5 6 10.3 Faribault 456.3 13.6 12.8 - 8.5 10.3 1.4 1.9 7 Freeborn 449.3 16.4 15.4 1.1 .9 3.4 Goodhue 485.1 71.1 63.0 6.78 2.8 Fillnore 549.8 90.1 83.7 - 6.4 15.2 Freeborn 449.3 16.4 15.4 1.1 .9 3.4 Goodhue 485.1 71.1 63.0 6.7 7.5 13.0 Grant 361.6 368.8 30.6 2 6.0 8.5 13.0 Grant 282.9 60.9 51.2 - 9.7 18.1 17.4 17.4 17.4 17.5 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2	+42.1	+38.2
Benton         258.6         35.0         27.3         - 7.7         10.6           Blue Earth         326.4         4.0         3.8         - 2         1.2           Blue Earth         473.6         33.3         31.4         1.1         1.8         6.6           Brown         392.3         15.8         14.7         2         .9         3.7           Carlton         550.4         383.4         367.0         8.4         8.0         66.7           Carver         229.1         28.4         23.9         - 4.5         10.4           Cass         1,313.9         1,023.8         1,006.4         - 17.4         76.6           Chippewa         372.5         8.5         7.8         .3         .4         2.1           Chisago         268.2         66.1         52.9         .1         13.1         19.7           Clay         672.0         24.9         20.0         .1         4.8         3.0           Clearwater         643.2         394.5         367.7         19.4         7.4         57.2           Cock         897.9         868.9         710.0         157.0         1.9         79.1           C	-80.3	-227.2
Big Stone   326.4   4.0   3.8   -   2   1.2   Blue Earth   473.6   33.3   31.4   1.1   1.8   6.6   Brown   392.3   15.8   14.7   2   9   3.7   Carlton   550.4   383.4   367.0   8.4   8.0   66.7   Carver   229.1   28.4   23.9   -   4.5   10.4   Cass   1,313.9   1,023.8   1,006.4   -   17.4   76.6   Chippewa   372.5   8.5   7.8   3   4   2.1   Chisago   268.2   66.1   52.9   1.1   13.1   19.7   Clay   672.0   24.9   20.0   1.1   4.8   3.0   Clearwater   643.2   394.5   367.7   19.4   7.4   57.2   Cook   897.9   868.9   710.0   157.0   1.9   79.1   Cottonwood   409.6   7.1   6.7   -   4   1.6   Crow Wing   639.4   449.5   447.5   -   2.0   70.0   Dakota   365.4   42.1   33.6   -   8.5   9.2   Dodge   278.4   9.0   8.5   -   5.5   3.0   Douglas   407.7   48.2   42.3   3.3   5.6   10.3   Faribault   456.3   13.6   12.8   -   8.8   2.8   Fillmore   549.8   90.1   83.7   -   6.4   15.2   Freeborn   449.3   16.4   15.4   1.1   9   3.4   Goodhue   485.1   71.1   63.0   6   7.5   13.0   Grant   356.5   5.4   5.1   -   3   1.4   Hennepin   361.6   36.8   30.6   2   6.0   8.5   Houston   361.6   127.8   114.8   4   12.6   31.7   Hubbard   596.5   445.8   440.1   3.8   1.9   73.8   Isanti   282.9   60.9   51.2   -   9.7   18.1   Itasca   1,704.3   1,480.9   1,411.9   1.4   67.6   82.8   Jackson   446.7   6.8   6.2   2   4   1.4   Kanabec   336.0   177.4   154.6   -   22.8   46.0   Kittson   719.4   119.7   94.2   5   25.0   13.1   Koochiching   2,002.6   1,868.7   7/1,574.7   -   7/294.0   78.6   Lac qui Parle   494.7   8.6   8.1   -   3   1.5   Le Sueur   282.2   31.2   29.5   -   1.7   10.5   Lake of the Woods   837.1   62.3   57.2   68.8   -   4   4   1.3   Mahnomen   345.4   128.8   126.6   -   2.2   34.5   Marshall   1,152.0   203.2   151.6   2   51.4   13.2   Martin   452.5   7.2   68.8   -   4   1.5	-14.9	-21.7
Blue Earth 473.6 33.3 31.4 1 1.8 6.6 Brown 392.3 15.8 14.7 .2 .9 3.7 Carlton 550.4 383.4 367.0 8.4 8.0 66.7 Carver 229.1 28.4 23.9 - 4.5 10.4 Cass 1,313.9 1,023.8 1,006.4 - 17.4 76.6 Chippewa 372.5 8.5 7.8 .3 .4 2.1 Chisago 268.2 66.1 52.9 .1 13.1 19.7 Clay 672.0 24.9 20.0 .1 4.8 3.0 Clearwater 643.2 394.5 367.7 19.4 7.4 57.2 Cook 897.9 868.9 710.0 157.0 1.9 79.1 Cottonwood 409.6 7.1 6.7 - 4 1.6 Crow Wing 639.4 449.5 447.5 - 2.0 70.0 Dakota 365.4 42.1 33.6 - 8.5 9.2 Dodge 278.4 9.0 8.55 3.0 Dodge 278.4 9.0 8.56 4 15.2 Freeborn 449.3 16.4 15.4 1. 9.9 3.4 Goodhue 485.1 71.1 63.0 6.6 7.5 13.0 Grant 366.6 36.8 30.6 2 6.0 8.5 About 46.7 6.8 6.8 30.6 2 6.0 8.5 About 46.7 6.8 6.8 5.0 13.1 Tatsca 1,704.3 1,480.9 1,419.9 1.4 67.6 82.8 45.8 46.0 Kanabec 36.0 17.4 154.6 - 2 2 4 1.4 4 1.4 67.6 82.8 1.4 1.4 67.6 82.8 1.4 1.4 67.6 82.8 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4 1.4	+.7	+,7
Brown 392.3 15.8 14.7 2 .9 3.7 Carlton 550.4 383.4 367.0 8.4 8.0 66.7 Carver 229.1 28.4 23.9 - 4.5 10.4 Cass 1,313.9 1,023.8 1,006.4 - 17.4 76.6 Chippewa 372.5 8.5 7.8 3 .4 2.1 Chisago 268.2 66.1 52.9 .1 13.1 19.7 Clay 672.0 24.9 20.0 .1 4.8 3.0 Clearwater 643.2 394.5 367.7 19.4 7.4 57.2 Cook 897.9 868.9 710.0 157.0 1.9 79.1 Cottonwood 49.6 7.1 6.7 - 4 1.6 Crow Wing 639.4 449.5 447.5 - 2.0 70.0 Dakota 365.4 42.1 33.6 - 8.5 9.2 Dodge 278.4 9.0 8.55 3.0 Douglas 407.7 48.2 42.3 .3 5.6 10.3 Faribault 456.3 13.6 12.85 3.0 Douglas 407.7 48.2 42.3 .3 5.6 10.3 Faribault 456.3 13.6 12.88 2.8 Fillmore 549.8 90.1 83.7 - 6.4 15.2 Freeborn 449.3 16.4 15.4 1. 9 3.4 Goodhue 485.1 71.1 63.0 6 7.5 13.0 Grant 356.5 5.4 5.13 11.4 Hennepin 361.6 36.8 30.6 .2 6.0 8.5 Houston 361.6 127.8 114.8 4.1 1.9 3.4 Hennepin 361.6 127.8 114.8 4.1 1.9 73.8 Hubbard 596.5 445.8 440.1 3.8 1.9 73.8 Hubbard 596.5 445.8 56.2 .2 .4 1.4 67.6 82.8 Jackson 446.7 6.8 6.2 .2 .4 1.4 67.6 82.8 Jackson 446.7 6.8 6.2 .2 .4 1.4 67.6 6.0 82.8 Jackson 446.7 6.8 6.2 .2 .4 1.4 67.6 6.0 82.8 Jackson 446.7 6.8 6.2 .2 .2 .4 1.4 67.6 6.0 82.8 Jackson 446.7 6.8 6.2 .2 .2 .4 1.4 67.6 6.0 82.8 Jackson 446.7 6.8 6.2 .2 .2 .4 1.4 67.6 6.0 82.8 Jackson 446.7 6.8 6.2 .2 .2 .4 1.4 67.6 6.0 82.8 Jackson 446.7 6.8 6.2 .2 .2 .4 1.4 67.6 6.0 82.8 Jackson 446.7 6.8 6.2 .2 .2 .4 1.4 67.6 6.0 82.8 Jackson 446.7 6.8 6.2 .2 .2 .4 1.4 67.6 6.0 82.8 6.2 1.0 1.	-4.4	-6.3
Carver         229.1         28.4         23.9         -         4.5         10.4           Cass         1,313.9         1,023.8         1,006.4         -         17.4         76.6           Chippewa         372.5         8.5         7.8         3         4         2.1           Chisago         268.2         66.1         52.9         1         13.1         19.7           Clay         672.0         24.9         20.0         1         4.8         3.0           Clearwater         643.2         394.5         367.7         19.4         7.4         57.2           Cook         897.9         868.9         710.0         157.0         1.9         79.1           Cottonwood         409.6         7.1         6.7         5.0         1.9         79.1           Cotwing         639.4         449.5         447.5         -         2.0         70.0           Dakota         365.4         42.1         33.6         -         8.5         9.2           Dodge         278.4         9.0         8.5         -         5.5         3.0           Douglas         407.7         48.2         42.3         3         5.	-5.2	-6.1
Cass         1,313.9         1,023.8         1,006.4         -         17.4         76.6           Chippewa         372.5         8.5         7.8         .3         .4         2.1           Chisago         268.2         66.1         52.9         .1         13.1         19.7           Clay         672.0         24.9         20.0         .1         4.8         3.0           Clearwater         643.2         394.5         367.7         19.4         7.4         57.2           Cook         897.9         868.9         710.0         157.0         1.9         79.1           Cottowood         409.6         7.1         6.7         -         .4         1.6           Crow Wing         639.4         449.5         447.5         -         2.0         70.0           Dakota         365.4         42.1         33.6         -         8.5         9.2           Dodge         278.4         9.0         8.5         -         .5         3.0           Douglas         407.7         48.2         42.3         3         5.6         10.3           Faribault         456.3         13.6         12.8         - <td< td=""><td>-7.1</td><td>-2.4</td></td<>	-7.1	-2.4
Chippewa         372.5         8.5         7.8         .3         .4         2.1           Chisago         268.2         66.1         52.9         .1         13.1         19.7           Clay         672.0         24.9         20.0         .1         4.8         3.0           Clearwater         643.2         394.5         367.7         19.4         7.4         57.2           Cook         897.9         868.9         710.0         157.0         1.9         79.1           Cottonwood         409.6         7.1         6.7         -         .4         1.6           Crow Wing         639.4         449.5         447.5         -         2.0         70.0           Dakota         365.4         42.1         33.6         -         8.5         9.2           Dodge         278.4         9.0         8.5         -         .5         3.0           Douglas         407.7         48.2         42.3         .3         5.6         10.3           Faribault         456.3         13.6         12.8         -         .8         2.8           Fillmore         549.8         90.1         83.7         -         6.4<	+1.9	-2.6
Chisage 268.2 66.1 52.9 .1 13.1 19.7 Clay 672.0 24.9 20.0 .1 4.88 3.0 Clearwater 643.2 394.5 367.7 19.4 7.4 57.2 Cook 897.9 868.9 710.0 157.0 1.9 79.1 Cottonwood 409.6 7.1 6.74 1.6 Corow Wing 639.4 449.5 447.52.0 70.0 Dakota 365.4 42.1 33.68.5 9.2 Dodge 278.4 9.0 8.55 3.0 Douglas 407.7 48.2 42.3 3.3 5.6 10.3 Faribault 456.3 13.6 12.88 2.8 Fillmore 549.8 90.1 83.7 - 6.4 15.2 Freeborn 449.3 16.4 15.4 .1 .9 3.4 Goodhue 485.1 71.1 63.0 .6 7.5 13.0 Grant 356.5 5.4 5.13 1.4 Hennepin 361.6 36.8 30.6 .2 6.0 8.5 Houston 361.6 127.8 114.8 .4 12.6 31.7 Hubbard 596.5 445.8 440.1 3.8 1.9 73.8 Isanti 282.9 60.9 51.29.7 18.1 Itasca 1,704.3 1,480.9 1,411.9 1.4 67.6 82.8 Jackson 446.7 6.8 6.2 2 4.1 1.4 Kanabec 336.0 177.4 189.7 149.1 199.7 18.1 Kochiching 2,002.6 1,868.7 7/1,574.77.2 24.0 78.6 Lake of the Woods 837.1 623.4 528.52.5 25.0 13.1 Kochiching 2,002.6 1,868.7 7/1,574.77.2 94.9 63.1 Les Guiden 345.6 5.4 5.13 1.4 1.4 1.5 Lake of the Woods 837.1 623.4 528.59.7 1.3 4.0 Kittson 719.4 119.7 94.2 .5 25.0 13.1 Kochiching 2,002.6 1,868.7 7/1,574.77.2 94.0 78.6 Lake of the Woods 837.1 623.4 528.594.9 63.1 Les Guiden 345.6 5.4 5.13 1.5 Lyon 456.3 6.7 5.9 4 4 4 1.3 Mahnomen 367.4 128.8 126.62.2 34.5 Marshall 1,152.0 203.2 151.6 .2 51.4 13.2 Martin 452.5 7.2 6.84 1.5	+2.8	-11.5
Clay         672.0         24.9         20.0         .1         4.8         3.0           Clearwater         643.2         394.5         367.7         19.4         7.4         57.2           Cook         897.9         868.9         710.0         157.0         1.9         79.1           Cottonwood         409.6         7.1         6.7         -         .4         1.6           Crow Wing         639.4         449.5         447.5         -         .2         .0         70.0           Dakota         365.4         42.1         33.6         -         8.5         9.2           Dodge         278.4         9.0         8.5         -         .5         3.0           Douglas         407.7         48.2         42.3         .3         5.6         10.3           Faribault         456.3         13.6         12.8         -         .8         2.8           Fillmore         549.8         90.1         83.7         -         6.4         15.2           Freeborn         449.3         16.4         15.4         .1         .9         3.4           Goodhue         485.1         71.1         63.0         .6 </td <td>+2.4</td> <td>+1.7</td>	+2.4	+1.7
Clearwater         643.2         394.5         367.7         19.4         7.4         57.2           Cook         897.9         868.9         710.0         157.0         1.9         79.1           Cottowood         409.6         7.1         6.7         -         .4         1.6           Crow Wing         639.4         449.5         447.5         -         2.0         70.0           Dakota         365.4         42.1         33.6         -         8.5         9.2           Dodge         278.4         9.0         8.5         -         .5         3.0           Douglas         407.7         48.2         42.3         .3         5.6         10.3           Faribault         456.3         13.6         12.8         -         .8         2.8           Fillmore         549.8         90.1         83.7         -         6.4         15.2           Freeborn         449.3         16.4         15.4         .1         .9         3.4           Goodhue         485.1         71.1         63.0         .6         7.5         13.0           Grant         356.5         5.4         5.1         -         .3 <td>-2.0</td> <td>-15.0</td>	-2.0	-15.0
Cook         897.9         868.9         710.0         157.0         1,9         79.1           Cottowood         409.6         7.1         6.7         -         .4         1.6           Crow Wing         639.4         449.5         5447.5         -         2.0         70.0           Dakota         365.4         42.1         33.6         -         8.5         9.2           Dodge         278.4         9.0         8.5         -         .5         3.0           Douglas         407.7         48.2         42.3         .3         5.6         10.3           Faribault         456.3         13.6         12.8         -         .8         2.8           Fillmore         549.8         90.1         83.7         -         6.4         15.2           Freeborn         449.3         16.4         15.4         .1         .9         3.4           Goodhue         485.1         71.1         63.0         .6         7.5         13.0           Grant         356.5         5.4         5.1         -         .3         1.4           Hennepin         361.6         127.8         114.8         .4         12.6	+5.6	+.7
Cottonwood         409.6         7.1         6.7         -         .4         1.6           Crow Wing         639.4         449.5         347.5         -         2.0         70.0           Dakota         365.4         42.1         33.6         -         8.5         9.2           Dodge         278.4         9.0         8.5         -         .5         3.0           Douglas         407.7         48.2         42.3         .3         5.6         10.3           Faribault         456.3         13.6         12.8         -         .8         2.8           Fillmore         549.8         90.1         83.7         -         6.4         15.2           Freeborn         449.3         16.4         15.4         .1         .9         3.4           Gorant         356.5         5.4         5.1         -         .3         1.4           Hennepin         361.6         36.8         30.6         .2         6.0         8.5           Houston         361.6         127.8         114.8         .4         12.6         31.7           Hubbard         596.5         445.8         440.1         3.8         1.9	-4.6	-11.9
Crow Wing         639.4         449.5         447.5         -         2.0         70.0           Dakota         365.4         42.1         33.6         -         8.5         9.2           Dodge         278.4         9.0         8.5         -         .5         3.0           Douglas         407.7         48.2         42.3         3         5.6         10.3           Faribault         456.3         13.6         12.8         -         .8         2.8           Fillmore         549.8         90.1         83.7         -         6.4         15.2           Freeborn         449.3         16.4         15.4         .1         .9         3.4           Goodhue         485.1         71.1         63.0         .6         7.5         13.0           Grant         356.5         5.4         5.1         -         .3         1.4           Hennepin         361.6         36.8         30.6         .2         6.0         8.5           Houston         361.6         127.8         114.8         .4         12.6         31.7           Rubbard         596.5         445.8         440.1         3.8         1.9	+1.6	-12.8
Dakota         365.4         42.1         33.6         -         8.5         9.2           Dodge         278.4         9.0         8.5         -         .5         3.0           Douglas         407.7         48.2         42.3         .3         5.6         10.3           Faribault         456.3         13.6         12.8         -         .8         2.8           Fillmore         549.8         90.1         83.7         -         6.4         15.2           Freeborn         449.3         16.4         15.4         .1         .9         3.4           Goodhue         485.1         71.1         63.0         .6         7.5         13.0           Grant         356.5         5.4         5.1         -         .3         1.4           Hennepin         361.6         36.8         30.6         .2         6.0         8.5           Houston         361.6         127.8         114.8         .4         12.6         31.7           Hubbard         596.5         445.8         440.1         3.8         1.9         73.8           Isanti         282.9         60.9         51.2         -         9.7	+2.7	+2.3
Dodge         278.4         9.0         8.5         -         .5         3.0           Douglas         407.7         48.2         42.3         .3         5.6         10.3           Faribault         456.3         13.6         12.8         -         .8         2.8           Fillmore         549.8         90.1         83.7         -         6.4         15.2           Freeborn         449.3         16.4         15.4         .1         .9         3.4           Godhue         485.1         71.1         63.0         .6         7.5         13.0           Grant         356.5         5.4         5.1         -         .3         1.4           Hennepin         361.6         36.8         30.6         .2         6.0         8.5           Houston         361.6         127.8         114.8         .4         12.6         31.7           Hubbard         596.5         445.8         440.1         3.8         1.9         73.8           Isanti         282.9         60.9         51.2         -         9.7         18.1           Itasca         1,704.3         1,480.9         1,411.9         1.4         67	-15.5	-11.9
Douglas         407.7         48.2         42.3         .3         5.6         10.3           Faribault         456.3         13.6         12.8         -         .8         2.8           Fillmore         549.8         90.1         83.7         -         6.4         15.2           Freeborn         449.3         16.4         15.4         .1         .9         3.4           Goodhue         485.1         71.1         63.0         .6         7.5         13.0           Grant         356.5         5.4         5.1         -         .3         1.4           Hennepin         361.6         36.8         30.6         .2         6.0         8.5           Houston         361.6         127.8         114.8         .4         12.6         31.7           Hubbard         596.5         445.8         440.1         3.8         1.9         73.8           Isanti         282.9         60.9         51.2         -         9.7         18.1           Itasca         1,704.3         1,480.9         1,411.9         1.4         67.6         82.8           Jackson         446.7         6.8         6.2         .2	+5.5	-3.0
Faribault 456.3 13.6 12.88 2.8 Fillmore 549.8 90.1 83.7 - 6.4 15.2 Freeborn 449.3 16.4 15.4 .1 .9 3.4 Goodhue 485.1 71.1 63.0 .6 7.5 13.0 Grant 356.5 5.4 5.13 1.4 Hennepin 361.6 36.8 30.6 .2 6.0 8.5 Houston 361.6 127.8 114.8 .4 12.6 31.7 Hubbard 596.5 445.8 440.1 3.8 1.9 73.8 Isanti 282.9 60.9 51.2 - 9.7 18.1 Itasca 1,704.3 1,480.9 1,411.9 1.4 67.6 82.8 Jackson 446.7 6.8 6.2 .2 .4 1.4 Kanabec 336.0 177.4 154.6 - 22.8 46.0 Kandiyohi 527.4 23.2 21.2 .7 1.3 4.0 Kittson 719.4 119.7 94.2 .5 25.0 13.1 Koochiching 2,002.6 1,868.7 7/1,574.7 - 1/294.0 78.6 Lac qui Parle 494.7 8.6 8.15 1.6 Lake 1,364.5 1,306.8 1,104.0 173.3 29.5 80.9 Lake of the Woods 837.1 623.4 528.5 - 94.9 63.1 Le Sueur 282.2 31.2 29.5 - 1.7 10.5 Lyon 456.3 6.7 5.9 .4 .4 .1 1.3 Mahnomen 367.4 128.8 126.6 - 2.2 34.5 Marshall 1,152.0 203.2 151.6 .2 51.4 13.2 Martin 452.5 7.2 6.84 1.5 McLeod 318.7 11.0 10.46 3.3	-5.1	-5.6
Fillmore 549.8 90.1 83.7 - 6.4 15.2 Freeborn 449.3 16.4 15.4 .1 .9 3.4 Goodhue 485.1 71.1 63.0 .6 7.5 13.0 Grant 356.5 5.4 5.13 1.4 Hennepin 361.6 36.8 30.6 .2 6.0 8.5 Houston 361.6 127.8 114.8 .4 12.6 31.7 Hubbard 596.5 445.8 440.1 3.8 1.9 73.8 Isanti 282.9 60.9 51.2 - 9.7 18.1 Itasca 1,704.3 1,480.9 1,411.9 1.4 67.6 82.8 Jackson 446.7 6.8 6.2 .2 .4 1.4 Kanabec 336.0 177.4 154.6 - 22.8 46.0 Kandiyohi 527.4 23.2 21.2 .7 1.3 4.0 Kittson 719.4 119.7 94.2 .5 25.0 13.1 Koochiching 2,002.6 1,868.7 7/1,574.7 - 1/294.0 78.6 Lac qui Parle 494.7 8.6 8.15 1.6 Lake 1,364.5 1,306.8 1,104.0 173.3 29.5 80.9 Lake of the Woods 837.1 623.4 528.5 - 94.9 63.1 Le Sueur 282.2 31.2 29.5 - 1.7 10.5 Lincoln 345.6 5.4 5.13 1.5 Lyon 456.3 6.7 5.9 .4 .4 .4 1.3 Mahnomen 367.4 128.8 126.6 - 2.2 34.5 Marshall 1,152.0 203.2 151.6 .2 51.4 13.2 Martin 452.5 7.2 6.84 1.5 McLeod 318.7 11.0 10.46 3.3	+6.3	+.6
Freeborn         449.3         16.4         15.4         .1         .9         3.4           Goodhue         485.1         71.1         63.0         .6         7.5         13.0           Grant         356.5         5.4         5.1         -         .3         1.4           Hennepin         361.6         36.8         30.6         .2         6.0         8.5           Houston         361.6         127.8         114.8         .4         12.6         31.7           Hubbard         596.5         445.8         440.1         3.8         1.9         73.8           Isanti         282.9         60.9         51.2         -         9.7         18.1           Itasca         1,704.3         1,480.9         1,411.9         1.4         67.6         82.8           Jackson         446.7         6.8         6.2         .2         .4         1.4           Kanabec         336.0         177.4         154.6         -         22.8         46.0           Kandiyohi         527.4         23.2         21.2         .7         1.3         4.0           Kittson         719.4         119.7         94.2         .5	1	9
Goodhue         485.1         71.1         63.0         .6         7.5         13.0           Grant         356.5         5.4         5.1         -         .3         1.4           Hennepin         361.6         36.8         30.6         .2         6.0         8.5           Houston         361.6         127.8         114.8         .4         12.6         31.7           Hubbard         596.5         445.8         440.1         3.8         1.9         73.8           Isanti         282.9         60.9         51.2         -         9.7         18.1           Itasca         1,704.3         1,480.9         1,411.9         1.4         67.6         82.8           Jackson         446.7         6.8         6.2         .2         .4         1.4           Kanabec         336.0         177.4         154.6         -         22.8         46.0           Kandiyohi         527.4         23.2         21.2         .7         1.3         4.0           Kittson         719.4         119.7         94.2         .5         25.0         13.1           Koochiching         2,002.6         1,868.7         7/1,574.7	-5.1	-8.9
Grant         356.5         5.4         5.1         -         .3         1.4           Hennepin         361.6         36.8         30.6         .2         6.0         8.5           Houston         361.6         127.8         114.8         .4         12.6         31.7           Hubbard         596.5         445.8         440.1         3.8         1.9         73.8           Isanti         282.9         60.9         51.2         -         9.7         18.1           Itasca         1,704.3         1,480.9         1,411.9         1.4         67.6         82.8           Jackson         446.7         6.8         6.2         .2         .4         1.4           Kanabec         336.0         177.4         154.6         -         22.8         46.0           Kandiyohi         527.4         23.2         21.2         .7         1.3         4.0           Kittson         719.4         119.7         94.2         .5         25.0         13.1           Koochiching         2,002.6         1,868.7         7/1,574.7         -         7/294.0         78.6           Lac qui Parle         494.7         8.6         8.1	+2.3	+1.4
Hennepin 361.6 36.8 30.6 .2 6.0 8.5 Houston 361.6 127.8 114.8 .4 12.6 31.7 Hubbard 596.5 445.8 440.1 3.8 1.9 73.8 Isanti 282.9 60.9 51.2 - 9.7 18.1 Itasca 1,704.3 1,480.9 1,411.9 1.4 67.6 82.8 Jackson 446.7 6.8 6.2 .2 .4 1.4 Kanabec 336.0 177.4 154.6 - 22.8 46.0 Kandiyohi 527.4 23.2 21.2 .7 1.3 4.0 Kittson 719.4 119.7 94.2 .5 25.0 13.1 Koochiching 2,002.6 1,868.7 7/1,574.7 - 1/294.0 78.6 Lac qui Parle 494.7 8.6 8.15 1.6 Lake 1,364.5 1,306.8 1,104.0 173.3 29.5 80.9 Lake of the Woods 837.1 623.4 528.5 - 94.9 63.1 Le Sueur 282.2 31.2 29.5 - 1.7 10.5 Lincoln 345.6 5.4 5.13 1.5 Lyon 456.3 6.7 5.9 .4 .4 .1 Martin 452.5 7.2 6.8 - 2.2 34.5 Martin 452.5 7.2 6.84 1.5 McLeod 318.7 11.0 10.46 3.3	+4.6	-1.6
Houston         361.6         127.8         114.8         .4         12.6         31.7           Hubbard         596.5         445.8         440.1         3.8         1.9         73.8           Isanti         282.9         60.9         51.2         -         9.7         18.1           Itasca         1,704.3         1,480.9         1,411.9         1.4         67.6         82.8           Jackson         446.7         6.8         6.2         .2         .4         1.4           Kanabec         336.0         177.4         154.6         -         22.8         46.0           Kandiyohi         527.4         23.2         21.2         .7         1.3         4.0           Kittson         719.4         119.7         94.2         .5         25.0         13.1           Koochiching         2,002.6         1,868.7         7/1,574.7         -         1/294.0         78.6           Lac qui Parle         494.7         8.6         8.1         -         .5         1.6           Lake         1,364.5         1,306.8         1,104.0         173.3         29.5         80.9           Lake of the Woods         837.1         623.4	+.6	+.4
Hubbard         596.5         445.8         440.1         3.8         1.9         73.8           Isanti         282.9         60.9         51.2         -         9.7         18.1           Itasca         1,704.3         1,480.9         1,411.9         1.4         67.6         82.8           Jackson         446.7         6.8         6.2         .2         .4         1.4           Kanabec         336.0         177.4         154.6         -         22.8         46.0           Kandiyohi         527.4         23.2         21.2         .7         1.3         4.0           Kittson         719.4         119.7         94.2         .5         25.0         13.1           Koochiching         2,002.6         1,868.7         7/1,574.7         -         -/294.0         78.6           Lac qui Parle         494.7         8.6         8.1         -         .5         1.6           Lake         1,364.5         1,306.8         1,104.0         173.3         29.5         80.9           Lake of the Woods         837.1         623.4         528.5         -         94.9         63.1           Le Sueur         282.2         31.2	+5.4	8
Isanti         282.9         60.9         51.2         -         9.7         18.1           Itasca         1,704.3         1,480.9         1,411.9         1.4         67.6         82.8           Jackson         446.7         6.8         6.2         .2         .4         1.4           Kanabec         336.0         177.4         154.6         -         22.8         46.0           Kandiyohi         527.4         23.2         21.2         .7         1.3         4.0           Kittson         719.4         119.7         94.2         .5         25.0         13.1           Koochiching         2,002.6         1,868.7         7/1,574.7         -         7/294.0         78.6           Lac qui Parle         494.7         8.6         8.1         -         .5         1.6           Lake         1,364.5         1,306.8         1,104.0         173.3         29.5         80.9           Lake of the Woods         837.1         623.4         528.5         -         94.9         63.1           Le Sueur         282.2         31.2         29.5         -         1.7         10.5           Lincoln         345.6         5.4	+1.9	-7.5
Itasca         1,704.3         1,480.9         1,411.9         1.4         67.6         82.8           Jackson         446.7         6.8         6.2         .2         .4         1.4           Kanabec         336.0         177.4         154.6         -         22.8         46.0           Kandiyohi         527.4         23.2         21.2         .7         1.3         4.0           Kittson         719.4         119.7         94.2         .5         25.0         13.1           Koochiching         2,002.6         1,868.7         7/1,574.7         -         7/294.0         78.6           Lac qui Parle         494.7         8.6         8.1         -         .5         1.6           Lake         1,364.5         1,306.8         1,104.0         173.3         29.5         80.9           Lake of the Woods         837.1         623.4         528.5         -         94.9         63.1           Le Sueur         282.2         31.2         29.5         -         1.7         10.5           Lincoln         345.6         5.4         5.1         -         .3         1.5           Lyon         456.3         6.7 <th< td=""><td>+.5</td><td>5</td></th<>	+.5	5
Jackson         446.7         6.8         6.2         .2         .4         1.4           Kanabec         336.0         177.4         154.6         -         22.8         46.0           Kandiyohi         527.4         23.2         21.2         .7         1.3         4.0           Kittson         719.4         119.7         94.2         .5         25.0         13.1           Koochiching         2,002.6         1,868.7         7/1,574.7         -         1/294.0         78.6           Lac qui Parle         494.7         8.6         8.1         -         .5         1.6           Lake         1,364.5         1,306.8         1,104.0         173.3         29.5         80.9           Lake of the Woods         837.1         623.4         528.5         -         94.9         63.1           Le Sueur         282.2         31.2         29.5         -         1.7         10.5           Lincoln         345.6         5.4         5.1         -         .3         1.5           Lyon         456.3         6.7         5.9         .4         .4         1.3           Marshall         1,152.0         203.2         151.6 </td <td>-4.1. -16.1</td> <td>-13.8 -45.8</td>	-4.1. -16.1	-13.8 -45.8
Kanabec         336.0         177.4         154.6         -         22.8         46.0           Kandiyohi         527.4         23.2         21.2         .7         1.3         4.0           Kittson         719.4         119.7         94.2         .5         25.0         13.1           Koochiching         2,002.6         1,868.7         7/1,574.7         -         1/294.0         78.6           Lac qui Parle         494.7         8.6         8.1         -         .5         1.6           Lake         1,364.5         1,306.8         1,104.0         173.3         29.5         80.9           Lake of the Woods         837.1         623.4         528.5         -         94.9         63.1           Le Sueur         282.2         31.2         29.5         -         1.7         10.5           Lincoln         345.6         5.4         5.1         -         .3         1.5           Lyon         456.3         6.7         5.9         .4         .4         1.3           Marshall         1,152.0         203.2         151.6         .2         51.4         13.2           Martin         452.5         7.2         6.8		-1.7
Kandiyohi         527.4         23.2         21.2         .7         1.3         4.0           Kittson         719.4         119.7         94.2         .5         25.0         13.1           Koochiching         2,002.6         1,868.7         7/1,574.7         -         7/294.0         78.6           Lac qui Parle         494.7         8.6         8.1         -         .5         1.6           Lake         1,364.5         1,306.8         1,104.0         173.3         29.5         80.9           Lake of the Woods         837.1         623.4         528.5         -         94.9         63.1           Le Sueur         282.2         31.2         29.5         -         1.7         10.5           Lincoln         345.6         5.4         5.1         -         .3         1.5           Lyon         456.3         6.7         5.9         .4         .4         1.3           Marshall         1,152.0         203.2         151.6         .2         51.4         13.2           Martin         452.5         7.2         6.8         -         .4         1.5           McLeod         318.7         11.0         10.4	-1.3 +9.1	-11.5
Kittson         719.4         119.7         94.2         .5         25.0         13.1           Koochiching         2,002.6         1,868.7         7/1,574.7         -         7/294.0         78.6           Lac qui Parle         494.7         8.6         8.1         -         .5         1.6           Lake         1,364.5         1,306.8         1,104.0         173.3         29.5         80.9           Lake of the Woods         837.1         623.4         528.5         -         94.9         63.1           Le Sueur         282.2         31.2         29.5         -         1.7         10.5           Lincoln         345.6         5.4         5.1         -         .3         1.5           Lyon         456.3         6.7         5.9         .4         .4         1.3           Marnhanomen         367.4         128.8         126.6         -         2.2         34.5           Marshall         1,152.0         203.2         151.6         .2         51.4         13.2           Martin         452.5         7.2         6.8         -         .4         1.5           McLeod         318.7         11.0         10.4 </td <td>-11.6</td> <td>-13.2</td>	-11.6	-13.2
Koochiching         2,002.6         1,868.7         7/1,574.7         - 7/294.0         78.6           Lac qui Parle         494.7         8.6         8.1        5         1.6           Lake         1,364.5         1,306.8         1,104.0         173.3         29.5         80.9           Lake of the Woods         837.1         623.4         528.5         - 94.9         63.1           Le Sueur         282.2         31.2         29.5         - 1.7         10.5           Lincoln         345.6         5.4         5.1        3         1.5           Lyon         456.3         6.7         5.9         .4         .4         1.3           Mahnomen         367.4         128.8         126.6         - 2.2         34.5           Marshall         1,152.0         203.2         151.6         .2         51.4         13.2           Martin         452.5         7.2         6.8        4         1.5           McLeod         318.7         11.0         10.4        6         3.3	-1.7	-10.1
Lac qui Parle 494.7 8.6 8.15 1.6  Lake 1,364.5 1,306.8 1,104.0 173.3 29.5 80.9  Lake of the Woods 837.1 623.4 528.5 - 94.9 63.1  Le Sueur 282.2 31.2 29.5 - 1.7 10.5  Lincoln 345.6 5.4 5.13 1.5  Lyon 456.3 6.7 5.9 .4 .4 1.3  Mahnomen 367.4 128.8 126.6 - 2.2 34.5  Marshall 1,152.0 203.2 151.6 .2 51.4 13.2  Martin 452.5 7.2 6.84 1.5  McLeod 318.7 11.0 10.46 3.3	+7.5	+52.8
Lake     1,364.5     1,306.8     1,104.0     173.3     29.5     80.9       Lake of the Woods     837.1     623.4     528.5     -     94.9     63.1       Le Sueur     282.2     31.2     29.5     -     1.7     10.5       Lincoln     345.6     5.4     5.1     -     .3     1.5       Lyon     456.3     6.7     5.9     .4     .4     1.3       Mahnomen     367.4     128.8     126.6     -     2.2     34.5       Marshall     1,152.0     203.2     151.6     .2     51.4     13.2       Martin     452.5     7.2     6.8     -     .4     1.5       McLeod     318.7     11.0     10.4     -     .6     3.3	7	-1.0
Lake of the Woods     837.1     623.4     528.5     -     94.9     63.1       Le Sueur     282.2     31.2     29.5     -     1.7     10.5       Lincoln     345.6     5.4     5.1     -     .3     1.5       Lyon     456.3     6.7     5.9     .4     .4     1.3       Mahnomen     367.4     128.8     126.6     -     2.2     34.5       Marshall     1,152.0     203.2     151.6     .2     51.4     13.2       Martin     452.5     7.2     6.8     -     .4     1.5       McLeod     318.7     11.0     10.4     -     .6     3.3	-8.6	-34.6
Le Sueur         282.2         31.2         29.5         -         1.7         10.5           Lincoln         345.6         5.4         5.1         -         .3         1.5           Lyon         456.3         6.7         5.9         .4         .4         1.3           Mahnomen         367.4         128.8         126.6         -         2.2         34.5           Marshall         1,152.0         203.2         151.6         .2         51.4         13.2           Martin         452.5         7.2         6.8         -         .4         1.5           McLeod         318.7         11.0         10.4         -         .6         3.3	-26.0	-26.4
Lincoln 345.6 5.4 5.13 1.5 Lyon 456.3 6.7 5.9 .4 .4 1.3 Mahnomen 367.4 128.8 126.6 - 2.2 34.5 Marshall 1,152.0 203.2 151.6 .2 51.4 13.2 Martin 452.5 7.2 6.84 1.5 McLeod 318.7 11.0 10.46 3.3	+6.1	+4.4
Lyon 456.3 6.7 5.9 .4 .4 1.3 Mahnomen 367.4 128.8 126.6 - 2.2 34.5 Marshall 1,152.0 203.2 151.6 .2 51.4 13.2 Martin 452.5 7.2 6.84 1.5 McLeod 318.7 11.0 10.46 3.3	+2,6	+2.3
Marshall     1,152.0     203.2     151.6     .2     51.4     13.2       Martin     452.5     7.2     6.8     -     .4     1.5       McLeod     318.7     11.0     10.4     -     .6     3.3	+1.0	+.6
Martin         452.5         7.2         6.8         -         .4         1.5           McLeod         318.7         11.0         10.4         -         .6         3.3	-16.1	-18.3
McLeod 318.7 11.0 10.46 3.3	-24.1	-74.5
	+3.0	+2.6
	-1.1	-1.7
Meeker 396.8 16.6 15.79 4.0	5	-1.3
Mille Lacs 363.5 157.5 131.3 6.1 20.1 36.1	-14.1	-40.0
Morrison 727.0 230.3 200.3 .3 29.7 27.6	-15.0	-42.7
Mower 449.9 9.9 9.45 2.1	-3.5	-4.0
Murray 453.1 5.1 4.6 .2 .3 1.0	+1.2	+.9
Nicollet 293.8 18.2 17.1 .1 1.0 5.8	-1,5	-2.4
Nobles 455.7 3.3 3.12 .7	+.8	+.6
Norman 566.4 33.3 30.0 - 3.3 5.3	-7.6	-10.9
Olmsted 419.2 52.9 47.9 - 5.0 11.4	+4.9	+.9
Otter Tail 1,280.0 268.2 232.3 .1 35.8 18.1	+23.7	-11.7
Pennington 398.1 44.0 35.6 - 8.4 8.9	-18.8	-27.2
Pine 903.7 515.9 459.4 26.6 29.9 50.8	-42.6	-67.1
Pipestone 297.0 1.9 1.81 .6	+.7	+.6
Polk 1,287.7 91.8 74.5 - 17.3 11.8	-18.6	-33.2

	:	:	Forest land 2/ :				: Change in	: Change in	
County	: Land	:	: Commer-	: Noncommercial 4/		: forest as	Change in forest land	: commercial	
	: area 1/	: Total	cial 3/	:Productive: Unproduc-		: a percent	since 1953	: forest land	
	:	:		:reserve 5/:	tive 6/	of area	: since 1555	: since 1953	
	Thousand	Thousand	Thousand	Thousand	Thousand	Percent	Thousand	Thousand	
	acres	acres	acres	acres	acres		acres	acres	
Pope	435.8	18.2	17.2	-	1.0	3.9	+3.3	+2.4	
Ramsey	102.4	8.7	6.6	-	2.1	6.4	+1.9	2	
Red Lake	276.5	43.1	36.9	.1	6.1	13.3	-9.8	-15.8	
Redwood	559.3	10.9	10.3		.6	1.8	-4.3	-4.7	
Renville	627.2	15.0	14.2	_	.8	2.3	-1.5	-2.3	
Rice	316.8	25.7	23.0	.5	2.2	7.3	+4.8	+2.1	
Rock	310.4	2.0	1.9	- (	.1	.6	+.2	+.1	
Roseau	1,072.6	336.6	271.0	_	65.6	25.3	-37.0	-99.3	
St. Louis	4,019.8	3,464.6	3,204.3	95.2	165.1	79.7	+4.9	-29.6	
Scott	225.3	27.0	23.6	-	3.4	10.5	-1.0	-2.4	
Sherburne	280.3	59.1	42.3	-	16.8	15.1	+.6	-16.2	
Sibley	371.8	24.9	23.5	-	1.4	6.3	+5.0	+3.7	
Stearns	867.8	103.1	78.2	-	24.9	9.0	+8.6	-15.8	
Steele	272.0	10.5	9.7	.2	.6	3.6	+2.4	+1.7	
Stevens	364.8	2.5	2.4	-	.1	.7	8	9	
Swift	478.1	8.4	7.8	.1	.5	1.6	-2.9	-3.3	
Todd	606.1	147.6	128.3	-	19.3	21.2	-17.1	-36.4	
Traverse	366.1	2.6	. 2.5	-	.1	.7	3	4	
Wabasha	333.4	65.3	51.6	.1	13.6	15.5	+.4	-10.0	
Wadena	343.0	132.5	130.0	.7	1.8	37.9	-8.1	-10.6	
Waseca	265.6	12.3	11.6		.7	4.4	-2.3	-2.9	
Washington	249.6	33.3	26.9	.4	6.0	10.8	+2.5	-3.8	
Watonwan	277.1	5.4	5.1	-	.3	1.8	+1.1	+.8	
Wilkin	481.3	2.1	2.0	-	.1	.4	4	5	
Winona	398.7	114.7	96.5	.9	17.3	24.2	-1.3	-13.6	
Wright	429.5	49.4	42.6	_	6.8	9.9	-3.1	-9.9	
Yellow Medicine	485.1	10.5	9.9	-	.6	2.0	2	8	
State total	51,205.8	19,047.4	17,062.0	503.1	1,482.3	33.3	-296.3	-1,035.6	

<sup>1</sup> 1960 Bureau of Census.

Land at least 10 percent stocked by forest trees of any size, or formerly having such tree cover, and not currently developed for nonforest use. Does not include lands currently developed for nonforest use such as urban or thickly settled residential or resort areas, city parks, orchards, improved roads, or improved pasturelands. The minimum area classified as forest land was 1 acre. Roadside, streamside, and shelterbelt strips of timber with crown width of 120 feet wide qualified as forest land. Unimproved roads and trails, streams, and clearings in forest areas were classified as forest if less than 120 feet in width.

<sup>3</sup> Forest land which is producing or capable of producing crops of industrial wood and not withdrawn from timber utilization.

<sup>4</sup> Unproductive forest land incapable of yielding crops of industrial wood because of adverse site conditions and productive public forest land withdrawn from commercial timber use through statute or administrative regulation.

5 Productive public forest land withdrawn from timber utilization through statute or admini-

strative regulation.

<sup>6</sup> Forest land incapable of yielding crops of industrial wood because of adverse site conditions.

7 Differs slightly from published Koochiching County Report due to computer rounding.

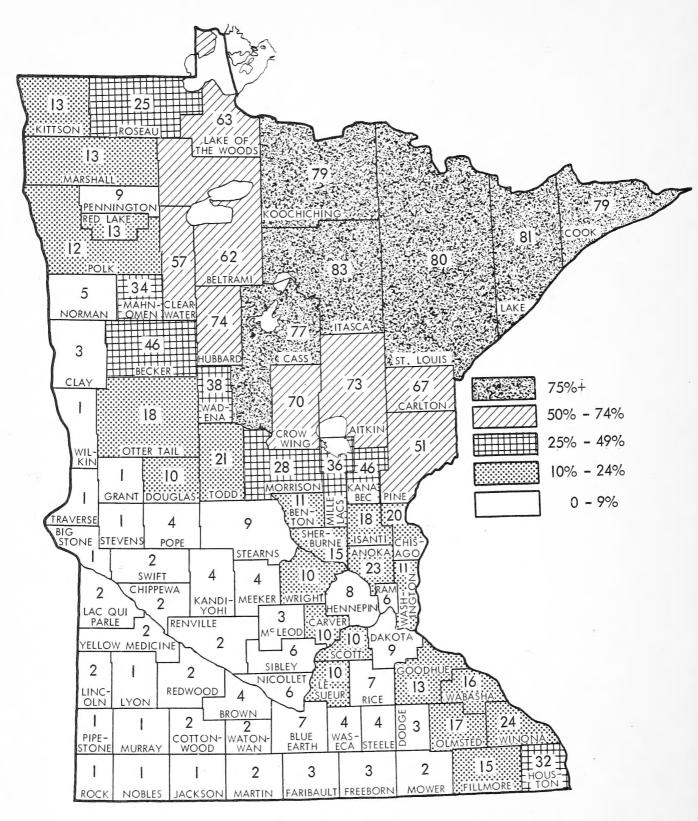


FIGURE 1. — Commercial forest area as a percent of all land area.



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